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☐ Select All1 Design and fabrication of wireless remotely readable MEMS accelerom2 Three-dimensional interpretation of the KTB gravity and magnetic anomalies3 Application of GPS differential positioning for the development of the Antarctic☐ document 1 of 5 Order Document

INSPEC - 1969 to date (INZZ)

Accession number & update

6000805, B9810-7230-002, C9810-3240N-002; 980818.

Title

Design and fabrication of wireless remotely readable MEMS accelerometers.

Publication year

1997.

Publication type

CPP Conference Paper, J Journal Paper.

Descriptors

accelerometers; conformal-antennas; etching; intelligent-sensors; interdigital-transducers;
micromachining; microsensors; reflector-antennas; remote-sensing; surface-acoustic-wave-sensors;
surface-acoustic-wave-transducers; wafer-bonding; Yagi-antenna-arrays.

Keywords

wireless remotely readable MEMS accelerometers; fabrication; design; SAW devices; microelectronics integration; conformal antenna; programmable wireless accelerometer; microaccelerometer; silicon micromachining; conformal sensor; air bag deployment sensors; vibration sensors; noise control; strain sensors; deflection sensor; dimensional positioning systems; inertial positioning systems; smart suspension; ABS traction control; active roll stabilization; four wheel steering; automobile crash test; **helicopter** blades; IDT; **seismic** mass; Rayleigh wave; wide dynamic range; reflector arrays; wafer bonding; etching; flip chip bonding; Yagi Uda antenna; Si.

Classification codes

B7230 (Sensing devices and transducers).
 B7320E (Velocity, acceleration and rotation measurement).
 B2575 (Micromechanical device technology).
 B2860C (Acoustic wave devices).
 B2550E (Surface treatment for semiconductor devices).
 B5270D (Antenna arrays).
 C3240N (Intelligent sensors).
 C3240D (Electric transducers and sensing devices).

Chemical indexing

Si sur, Si el.

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INSPEC - 1969 to date (INZZ)

Accession number & update
5720274, A9722-9135-011; 971014.

Title
Three-dimensional interpretation of the KTB gravity and magnetic anomalies.

Publication year
1997.

Publication type
J Journal Paper.

Descriptors
Earth-crust; geomagnetism; gravity.

Keywords
three dimensional interpretation; KTB; gravity anomalies; magnetic anomalies; aeromagnetic survey; drill site; source body; high density metabasite; Bouguer anomaly; continental crystalline basement rocks; pyrrhotite; magnetic mineral; anomalous vertical gradient; lithology; fissures; fault zones; borehole; chemical processes; 0 to 9101 m.

Classification codes
A9135G (Earth crust and upper mantle).
A9110Q (Gravity fields of the Earth).
A9125Q (Gеоelectricity; electromagnetic induction and conductivity) .
A9330G (Europe).

Numerical indexing
depth: 0.0E+00 to 9.101E+03 m.

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INSPEC - 1969 to date (INZZ)

Accession number & update
4775444, A9421-9385-074; 941006.

Title
Application of GPS differential positioning for the development of the Antarctic penetrator.

Publication year
1993.

Publication type
J Journal Paper.

Descriptors
geophysical-equipment; geophysical-techniques; physical-instrumentation-control; position-control; position-measurement; radionavigation; seismology; seismometers.

Keywords
Antarctic penetrator deployment errors; AD 1991 04; horizontal location accuracy; Aoyama Pasture; Hokkaido; N Japan; E Asia; **seismic** exploration; East Antarctica; long range **seismic** explosion

experiments; Earth crust P wave velocity structures; GPS differential positioning; Global Positioning System; release altitudes; two blade **helic pter**; Trimble GPS Pathfinder; GPS doubly differenced phase analysis; post processed 1 min average; **helicopter** hovering GPS differential navigation data; hovering method; falling trajectory; trajectory method; estimated position; precise location; height accuracy; time average; point positioning results; 10 to 30 m; 10 to 20 m; 300 km; 160 to 1000 m.

Classification c des

A9385 (Instrumentation and techniques for geophysical,

hydrospheric and lower atmosphere research).

A9110J (Topography: geometrical observations).

A9130R (Explosion seismology).

A9330C (Antarctica).

A9330D (Asia).

A9330K (Islands).

A0630C (Spatial variables measurement).

Numerical indexing

altitude: 1.6E+02 to 1.0E+03 m;

distance: 1.0E+01 to 3.0E+01 m, 1.0E+01 to 2.0E+01 m, 3.0E+05 m.

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